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(54) IONICALLY CONDUCTIVE POLYELECTROLYTE

(57) Abstract:

PURPOSE: To obtain an easily handleable polyelectrolyte which has stable excellent ionic conductivity even at low temperatures by mixing an organic polymer compound prepared by crosslinking a specified organic compound with a soluble electrolyte salt compound and an organic solvent.

CONSTITUTION: An ionically conductive polyelectrolyte comprising an organic polymer compound prepared by crosslinking an organic compound having a skeleton of formula I and an organic solvent. In formula I, Z is a residue of an active hydrogen compound; Y is an active hydrogen group or a polymerizable functional group; (m) is 1-250; (k) is 1-25; A is formula II; (n) is 0-25; and R is 1-20 C alkyl, alkenyl, aryl or alkylaryl. The above organic compound is crosslinked by polymerization performed with light, heat, an ionizing radiation or the like in the presence of optionally a polymerization initiator or a sensitizer.

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